

FIG.1

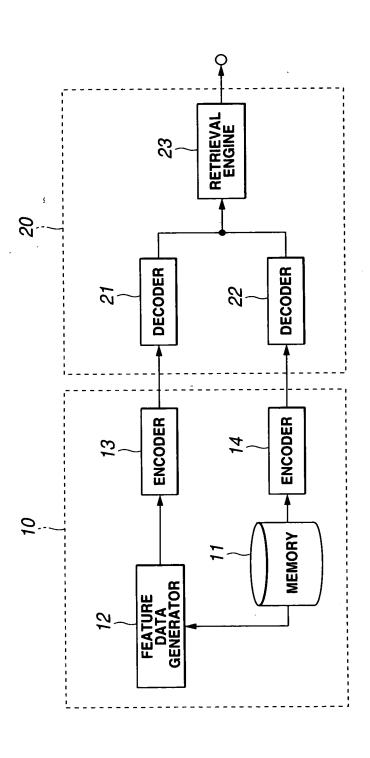
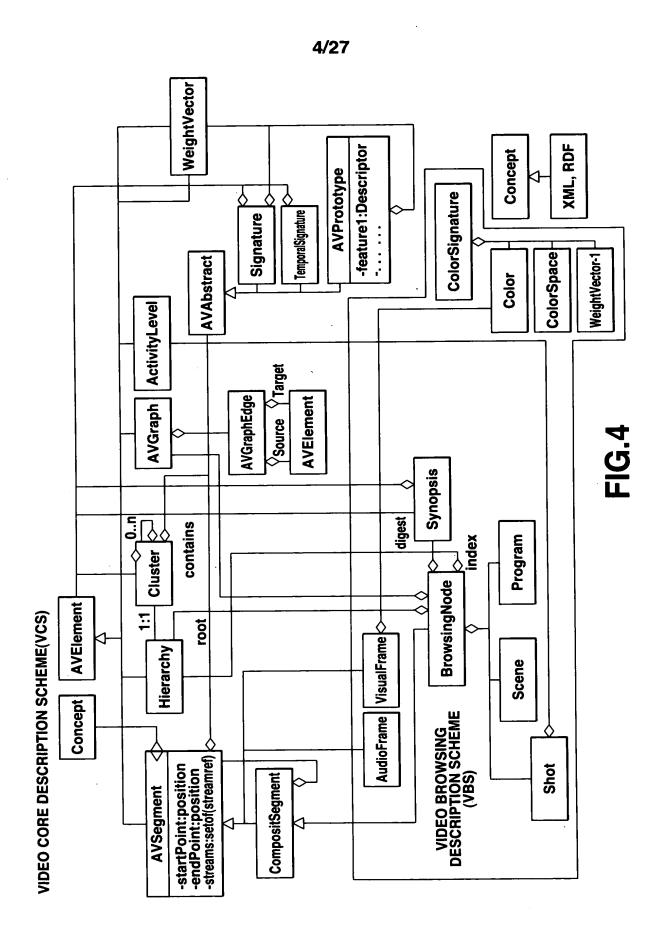


FIG.2

Descriptor	Sı	uperclass
Feature :	Туре	Example Value
_		
•	•	•
:	:	:

FIG.3



Descriptor : AVElement		Supercia None	ss:
Feature :	Feature : Type		Example Value

Descriptor : Supercl AVSegment AVElem		iperclass : /Element
Feature :	Feature Type	Example Value :
StartPoint	Position	
EndPoint	Position	
Streams	Streamref	
Abstract	Avabstract	Key frame
Concept	Concept	An RDF structure describing the content of this segment

FIG.6

Descriptor : AVAbstract		Superclass : AVElement	
Feature :	Feature Type		Example Value :

Descriptor : AVPrototype		Superclas AVAbstra		
Feature :	Feature Type		Example Value :	
Kind	String		"Shot" "Scene" "VisualFrame"	
Weights	WeightV	ector		
Feature1	Descript	or1		
Feature2	Descript	or2		
	• • •		• • •	
Featuren	Descript	orn		

FIG.8

7/27

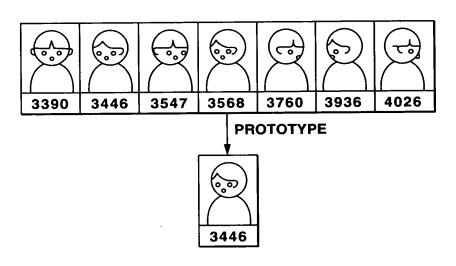


FIG.9

Descriptor : Hierarchy	-	Superclass : AVElement
Feature :	Feature Type	Example Value :
Root	Cluster	
Kind	String	

Descriptor : Cluster		Superclass : AVElement
Feature :	Feature Type	Example Value :
Members	AVElemen	it
Abstract	AVAbstrac	et

FIG.11

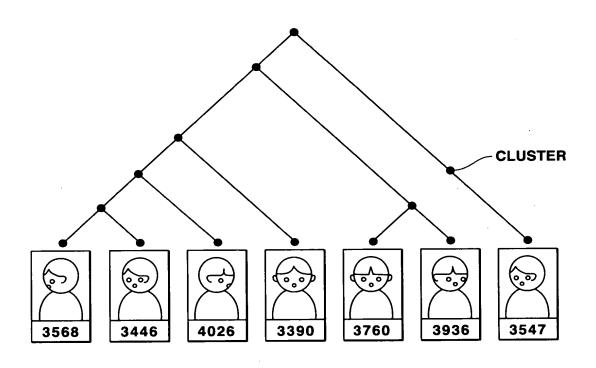


FIG.12

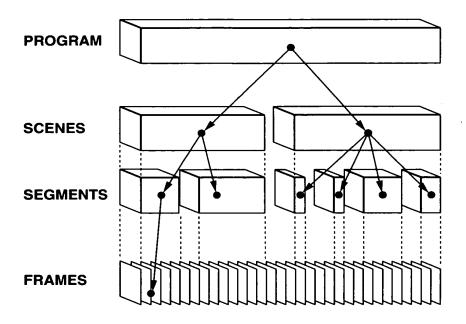
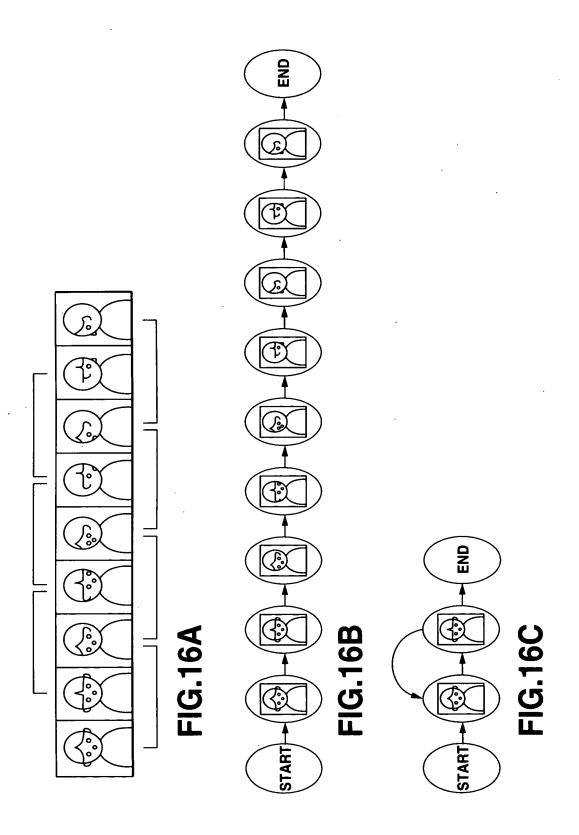


FIG.13

Descriptor: CompositeSe	gment	Supe AVSe	rclass: gment
Feature:	Feature Type		Example Value:
Components	AVSe	gment	

FIG.14

Descriptor : AVGraph		Superclass : AVElement		
Feature :	Feature Type		Example Value :	
Edges	AVGraph	nEdge		
Kind	String			



Descriptor : AVGraphEdge		Superclass : None	
Feature :	Feature Type		Example Value :
Source	AVEleme	ent	
Target	AVEleme	ent	
Label	String		"follows" "similarTo"

Descriptor : Signature		Superclas AVAbstra	Superclass : AVAbstract	
Feature :	Feature Type		Example Value :	
Weights	WeightV	ector ector		
Members	AVElem	ent		
Kind	String			

FIG.18

Descriptor : TemporalSignature		Superclass : AVAbstract	
Feature :	Feature Type	Example Value :	
Time	Weight\	/ector	
Members	AVElem	ent	
Kind	String		

Descriptor : ActivityLevel	or : ₋evel		Superclass : None	
Feature :	Feature Type		Example Value :	
ActivityLevel	Real			

FIG.20

Descriptor : WeightVector		Superclass : None
Feature :	Feature Type	Example Value :
Weights	Real[n]	
Normalized	Boolean	

FIG.21

		Superclass : None		
Feature :	Feature Type		Example Value :	
Concept	RDFNode or	e or XML		

Descriptor : Synopsis		Superclass : AVElement	
Feature : Concept	Feature Type	Example Value :	
Kind	String		
Sequence	AVEleme	ent	
IsOrdered	Boolean		

Descriptor : Color	Si		ss:
Feature :	Feature Type		Example Value :
Color	Real[3]		

FIG.24

Descriptor : ColorSpace		Super type : None
Feature :	Feature Type	Example Value :
ColorSpace	String	"HSV"

FIG.25

Descriptor : ColorSignature		Super type : None	
Feature :	Feature Type		Example Value :
ColorSpace	ColorSpace		
Colors	Color[n]		
Weights	WeightVector		

Descriptor :		Superclass :	
AudioFrame		AVSegment	
Feature :	Feature Type		Example Value :

FIG.27

Descriptor : VisualFrame	3	Superclass : AVSegment
Feature :	Feature Type	Example Value :
Color	ColorSigna	iture

Descriptor : BrowsingNode		Superclass : CompositeSegment	
Feature :	Feature Type	-	Example Value :
Index	AVHierarchy		A classification of the shots in a video
Synopsis	AVSynopsis		Sequence of key frames
Structure	AVGraph)	

Descriptor : Shot	Superc Browsi	ass : ngNode	
Feature :	Feature Type	Example Value :	
Activity	ActivityLevel	"0.5"	
Abstract	From AVSegment		
Synopsis	From BrowsingNode		
Index	From BrowsingNode		

FIG.30

Descriptor : Scene		Superclass : BrowsingNode	
Feature :	Feature Type		Example Value :
Kind	String		"DIALOG" "COMMERICAL" "ACTION" "ANCHOR"
Abstract	From AVSegment		
Synopsis	From BrowsingNode		
Index	From BrowsingNode		
Structure	From Browsing	gNode	

FIG.31

Descriptor : Program	Super type : BrowsingNode	
Feature :	Feature Type	Example Value :
Abstract	From AVSegment	Kind: SCENE ABSTRACT SHOT ABSTRACT
Synopsis	From BrowsingNod	е
Index	From BrowsingNod	е
Structure	From BrowsingNod	е

FIG.32

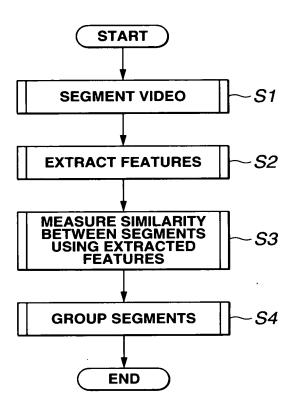


FIG.33

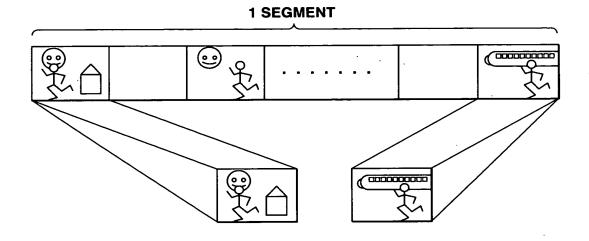


FIG.34

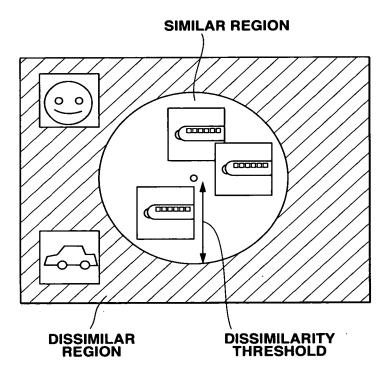


FIG.35

24/27

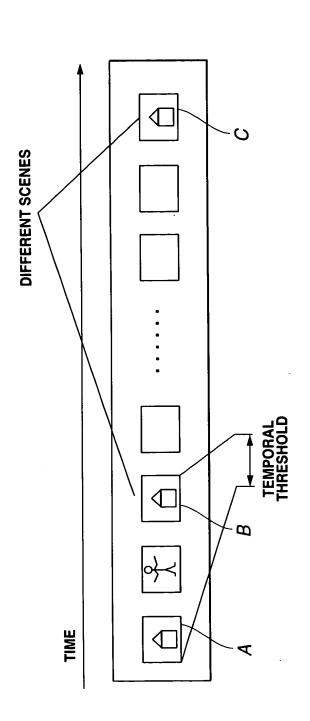


FIG.36

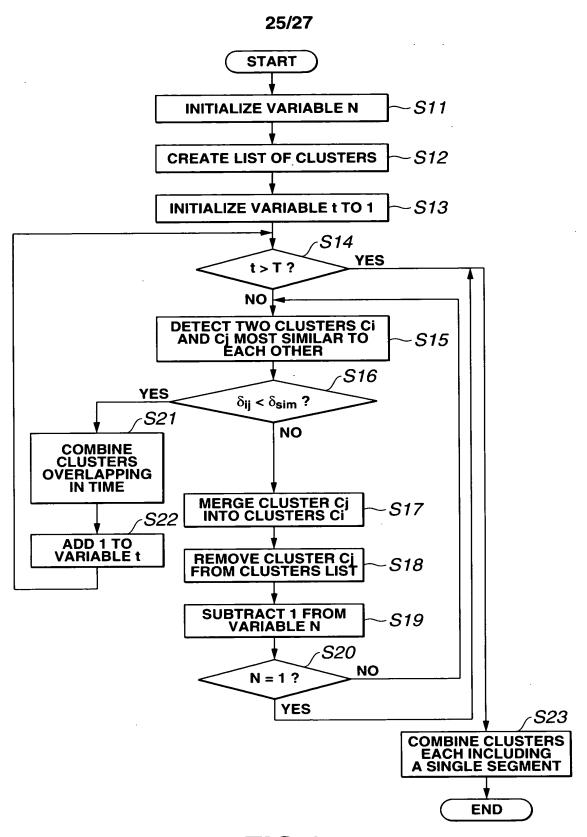


FIG.37

26/27

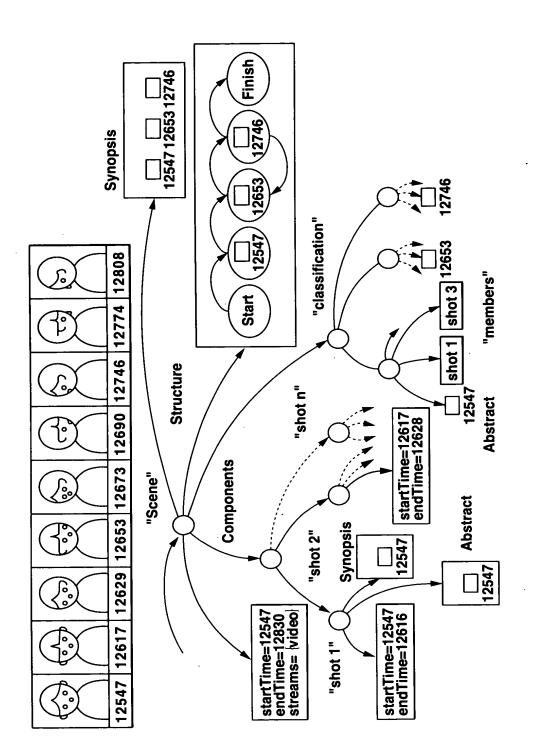


FIG.38

```
<scene>
                                                    ;AVSegment
       <startPoint>12547</startPoint>
       <endPoint>12830</endPoint>
                                                    :AVSegment
                                                    AVSegment
       <streams>{video}</streams>
       <synopsis kind=KEY_FRAME>
                                                    :BrowsingNode
              <sequence>
                      < KEY_FRAME refid= KEY_FRAME 1>
< KEY_FRAME refid= KEY_FRAME 2>
< KEY_FRAME refid= KEY_FRAME 3>
              </sequence>
       </synopsis>
       <abstract>
                                                   ;AVSegment
              <signature kind=SHOT_SIGNATURE>
                      <members>
                             <shot refid=shot1> <shot refid=shot2>
                             <shot refid=shot3>
                      </members>
                      <weights>0.1 0.45 0.45</weights>
              </signature>
       </abstract>
       <components>
                                            :CompositeSegment
                                                           ;Shot
              <shot id=shot1
                      <startPoint>12547</startPoint>
                                                           AVSegment
                      <endPoint>12616</endPoint>
                                                                   ;AVSegment
                                                                   ;AVSegment
                      <abstract>
                             <signature kind=FRAME_SIGNATURE>
                                     <member><frame refid=12590></members>
                                     <weights>1.0</weights>
                             </signature>
                      </abstract>
              </shot>
              <shot id=shot2>
                      <startPoint>12617</startPoint>
                      <endPoint>12628</endPoint>
               </shot>
               <shot id=shotn>...</shot>
       </components>
                                                           ;BrowsingNode
       <index>
               <hierarchy kind=SHOT_INDEX>
                                                           :Hierarchy
                       <cluster id=cluster1>
                              <members>
                              <shot refid=shot2> <shot refid=shot4>...
                              </members>
                                                           :Cluster
                              </abstract>
                                      ototype>shot 4
                              </abstract>
                      </cluster>
                      <cluster id=cluster2>...</cluster>
                      <cluster id=cluster3>...</cluster>
               </hierarchy>
       </index>
                                                           ;BrowsingNode
       <structure>
                                                           ;AVGraph
               <avgraph kind=SHOT_GROUP>
                      <avgraphedge source=start target=cluster1>
                      <avgraphedge source=cluster1 target=cluster2>
                      <avgraphedge source=cluster3 target=cluster2>
                      <avgraphedge source=cluster2 target=cluster3>
                      <avgraphedge source=cluster3 target=finish>
       </avgraph>
       <structure>
</scene>
```